

What is claimed is:

Sub A, 7 1. A diversity wireless device for providing diversity using a plurality of antennas comprising:

5 an antenna which is grounded (grounded antenna) and
an antenna which is not grounded (ungrounded antenna).

Sub B17 2. The diversity wireless device as described in Claim 1 wherein
a ground is placed in proximity to said ungrounded
10 antenna and said ungrounded antenna is coupled to said ground via
high-frequency waves.

3. The diversity wireless device as described in Claim 1 wherein
said device is structured (so as to obtain an efficient
15 diversity effect by maneuvering antenna directivity by changing at
least one of an angle between said grounded antenna and said
ungrounded antenna, and feeding points of said antennas)

4. The diversity wireless device as described in Claim 2 wherein
20 said device is structured (so as to obtain an efficient
diversity effect by maneuvering antenna directivity by changing at
least one of an angle between said grounded antenna and said
ungrounded antenna, and feeding points of said antennas)

25 5. A diversity wireless device for providing diversity using a plurality of ungrounded antennas wherein

a ground is placed in proximity to at least one of said
ungrounded antennas and said ungrounded antenna is coupled to said

ground via high-frequency waves.

6. The diversity wireless device as described in Claim 5 wherein
 said device is structured (so as to obtain an efficient
 5 diversity effect by maneuvering antenna directivity by changing at
 least one of an angle between said ungrounded antennas and feeding
 points thereof.)

7. A diversity wireless device for providing diversity using a
 10 plurality of antennas wherein
 at least one ungrounded antenna is provided, a ground is
 placed partly surrounding said ungrounded antenna, and said
 ungrounded antenna and said ground are coupled to each other via
 15 high-frequency waves.

8. The diversity wireless device as described in Claim 7 wherein
 said ground is composed of a plurality of laminated layers
 and is placed so as to partly surround said ungrounded antenna three-
 dimensionally, and said ungrounded antenna and said ground are
 20 coupled to each other via high-frequency waves.

9. A wireless terminal unit having an antenna element, said
 antenna element including:

- (a) a substrate;
- 25 (b) a first conductor section substantially in parallel to
 said substrate; and
- (c) a second conductor section successively formed from
 said first conductor section and angularly arranged relative to said

substrate.

Sub (P)

10. The wireless terminal unit as described in Claim 9 wherein
 said first conductor section has a feed terminal; and
 5 said second conductor section is structured so as to be
 inclined in the direction away from said feed terminal, said inclination
 being such that the space between said second conductor section and
 said substrate reduces in the direction away from said feed terminal.

10 11. The wireless terminal unit as described in Claim 10 wherein
 said unit is structured to have two said antenna elements
 and provide diversity using said two antenna elements, and said
 elements are configured substantially laterally symmetrical with
respect to a longitudinal axis of the unit.

15 12. The wireless terminal unit as described in Claim 10
 comprising:

at least two said antenna elements provided in said unit
 and a connector with a switch for connecting to an external antenna

20 wherein said unit is structured so as to switch one of said
NAD
internal antenna elements in said unit to said external antenna and to
 provide diversity using said external antenna and the other internal
 antenna element when said external antenna is connected to said
 connector.

25 13. The wireless terminal unit as described in Claim 11 wherein
 said antenna elements are ungrounded, a ground is
 placed in proximity to at least one of said ungrounded antenna

elements, and said ungrounded antenna is coupled to said ground via high-frequency waves.

- 5 14. The wireless terminal unit as described in Claim 12 wherein
said antenna elements are ungrounded, a ground is placed in proximity to at least one of said ungrounded antenna elements, and said ungrounded antenna is coupled to said ground via high-frequency waves.